

1. General Tasks

- 1.1. Define/Update COE Segmentation and Certification Processes for Windows 2000
- 1.2. Enterprise Rollout Procedures, Scripts and Disk Imaging Techniques
- 1.3. Define/Update COE Segmentation Processes for Windows .NET

2. Microsoft Related Tasks

- 2.1. NTAG Input to Logo Program Specifications
- 2.2. Microsoft R&D Wish List
- 2.3. Emerging Technologies
- 2.4. Internet Protocol v6

3. COE Documentation Updates

- 3.1. Develop/Update I&RTS V4.x Windows 2000
- 3.2. Update I&RTS V4.x Compliance Checklist for Windows 2000
- 3.3. Update I&RTS V4.x Security Chapter for Windows 2000
- 3.4. Develop Reduced Light/Night Operations Specifications for COE Windows-based Platforms
- 3.5. Develop/Update I&RTS V4.x for Windows XP and .NET
- 3.6. Develop/Update I&RTS V4.x Compliance Checklist for Windows XP and .NET
- 3.7. Develop/Update I&RTS V4.x Security Chapter for Windows .NET
- 3.8. Develop Automatic Test Tools for I&RTS V4.2

4. Windows COE Kernel Evaluations

- 4.1. Use of ActiveX Components
- 4.2. Use of .NET Assemblies
- 4.3. Design and Implementation Plan for a Commercialized Windows Kernel v5x
- 4.4. Common Security Framework

5. Windows 2000 & XP Impact Evaluations

- 5.1. Security Model
- 5.2. Active Directory
- 5.3. Heterogeneous Environments
- 5.4. Fast User Switching (Terminal Server)
- 5.5. Emerging Technologies

6. Windows .NET Impact Evaluations

- 6.1. .NET Security Model
- 6.2. .NET Common Language Runtime
- 6.3. .NET Installation Technology
- 6.4. .NET in a Heterogeneous COE Environment

NTAG Players:

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Microsoft	Thomas Talley		ttalley@microsoft.com

Task #	Task Name	Team Lead	Team Members
1	General Tasks		
1.1	Define/Update COE Segmentation and Certification Processes for Windows 2000 (Completed)	E Krum	
1.2	Enterprise Rollout Procedures (Completed)	D Morris	B Blaisdell
1.3	Define/Update COE Segmentation Processes for Windows .NET (New)	E Krum	

Task #	Task Name	Team Lead	Team Members
2	MS Logoâ Program Tasks		
2.1	NTAG Input to Application Specifications (Ongoing)	E Krum	B Blaisdell, D Morris, P Arnold
2.2	Windows 2000 R&D Wish List (Ongoing)	E Krum	W Fields
2.3	Emerging Technologies (Ongoing)	T Gannon	P Arnold
2.4	Internet Protocol v6 (New)	E Krum	T Talley

Task #	Task Name	Team Lead	Team Members
3	COE Documentation		
3.1	Update I&RTS V4.x for Windows 2000 (Completed)	E Krum	J Wyllie
3.2	Update I&RTS V4.x Compliance Checklist for Windows 2000 (Completed)	E Krum	B Stuhr, J. Wyllie
3.3	Update I&RTS V4.x Security Chapter for Windows 2000 (Completed)	P Bartock	B Blaisdell, D Morris, E Krum
3.4	Develop Reduced Light/Night Operations Specifications for COE NT-based Platforms (Ongoing)	J Wyllie	
3.5	Develop\Update I&RTS V4.x for Windows XP and .NET (New)	E Krum	P Denning
3.6	Develop\Update I&RTS V4.x Compliance Checklist for Windows XP and .NET (New)	B Stuhr	E Krum
3.7	Develop\Update I&RTS V4.x Security Chapter for Windows .NET (New)		
3.8	Develop Automatic Test Tools for	B Stuhr	

	I&RTS V4.2 (New)		
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Task #	Task Name	Team Lead	Team Members
4	COE NT Kernel Evaluations		
4.1	ActiveX Components (Completed)	E Krum	
4.2	Use of .NET Assemblies (New)	E Krum	
4.3	Design and Implementation Plan for a Commercialized Windows Kernel v5x (New)	E Krum	B Stuhr
4.4	Common Security Framework (New)	T Talley	B Stuhr

Task #	Task Name	Team Lead	Team Members
5	Windows 2000 & XP Impacts		
5.1	Security Model (Completed)	P Bartock	E Krum
5.2	Active Directory (Completed)	E Krum	P Cruikshank,
5.3	Heterogeneous Environments (Ongoing)	P Cruikshank	P Bartock
5.4	Fast User Switching (Terminal Server) (New)		

Task #	Task Name	Team Lead	Team Members
6	Windows .NET Impacts		
6.1	.NET Security Model (New)		
6.2	.NET Common Language Runtime (New)	E Krum	
6.3	.NET Installation Technologies (New)	E Krum	
6.4	. NET in a Heterogeneous COE Environment (New)	E Krum	P Denning

1.0 General Tasks

1.1 Define and Update COE Segmentation and Certification Processes for Windows 2000

Task: Develop recommendations on alternative processes for the certification of Windows 2000 Segments for COE NT platforms. Include in the investigation all of the certification approaches discussed in the Logo White Paper (delivered to DISA in July 1997). Brief the summary guidance to the NTAG. If directed, lead interaction with the COE ENG office to obtain DISA concurrence and publish results on NTAG pages.

Related Tasks: 3.1: Develop/Update I&RTS V4.x Windows 2000 Chapter,
3.2: Update I&RTS V4.x Compliance Checklist for Windows 2000

Team Lead: Eric Krum

Team Members:

Schedule: Briefed NTAG on 2 November 2000 and May 2001

Status: (Completed)

1.2 Enterprise Rollout Procedures, Scripts, and Disk Imaging Techniques

Task: Develop Guidance and recommendations for NTAG consideration on the subject of rolling out and securing NT over the enterprise. This investigation should include the development of recommended scripts, evaluate the use of third party products, and Disk Imaging Techniques. Guidance is needed for standalone, mixed and, enterprise level installations. Team will brief summary guidance to NTAG. If directed, team will lead interaction with the COE ENG office to obtain DISA concurrence and publish results on NTAG pages.

Related Tasks:

Team Lead: Doug Morris

Team Members: Bob Blaisdell

Schedule: Briefed NTAG on May 2001

Status: (Completed)

1.3 Define/Update COE Segmentation Processes for Windows .NET

Task: Develop Guidance and recommendations for NTAG consideration on the subject of segmenting process for segments built using .NET technologies. This investigation should include the development of processes and procedures for .NET based segments designed to be installed on systems from local media (CD-ROM, Floppy), over the network, via a web site, and as web site components (web services). Team will brief summary guidance to NTAG. If directed, team will lead interaction with the COE ENG office to obtain DISA concurrence and publish results on NTAG pages.

Related Tasks: 2.1 NTAG Input to Application Specifications
3.5 Update I&RTS V4.x for Windows XP and .NET
4.2 Use of .NET Assemblies
6.1 .NET Security Model
6.2 .NET Common Language Runtime

6.3 .NET Installation Technologies
Team Lead: Eric Krum
Team Members:
Schedule: Brief NTAG in March 2002
Status: (New)

2 MS Logoâ Program Tasks

2.1 NTAG Inputs to Microsoft Application Specifications and Certification Program

Task: Team will develop recommendations and provide inputs to the Microsoft Logo Programs (Designed for Microsoft Windows NT and Windows 98, Application and Server Specifications for Microsoft Windows 2000 and .NET when draft is released). The team will investigate the opportunities and support attendance at the Logo Program events and design reviews. All recommended inputs to the Logo Program will be briefed to the NTAG and the team will be responsible for coordinating any required changes with the COE Chief Engineer. Documentation generated in this effort will be placed on the NTAG web pages for widest possible dissemination and comment.

Related Tasks: 1.1: Define/Update COE Segmentation and Certification Processes;
3.1: Develop/Update I&RTS V4.x Windows XP and .NET Chapter;
3.6: Update I&RTS v4.x Compliance Checklist for Windows XP and .NET

Team Lead: Eric Krum
Team Members: Pat Arnold
Schedule: Ongoing
Status: Inputs available for I&RTS v4.0 and Windows 2000 Logo Specifications.

2.2 Microsoft R&D Wish List

Task: Team will gather requirements from the Services and Agencies for new technologies and features for Windows operating systems in use or planned for use by the COE, and then consolidated these requirements into recommendations for submission to OSD C3I. Emphasis of the team's work will be to understand the future requirements for Windows OS releases for DoD systems at the Enterprise level. The team will make presentations to the NTAG on consolidated requirements of future Windows OS releases and will be responsible for coordinating final recommendations to the COE Chief Engineer. Documentation generated by this effort will be placed on the NTAG web pages for widest possible dissemination and comment.

Related Tasks:
Team Lead: Eric Krum
Team Members:

Schedule: Ongoing
Status:

2.3 Emerging Technologies

Task: Team will investigate emerging technologies of interest to the Services and Agencies for incorporation into the COE, such as CEs, SMARTCARDS, Tablet PCs, etc. The team will make presentations, demonstrations and recommendations to the NTAG on the best use of new technology in the heterogeneous environment of the COE. The team will also lead efforts to obtain concurrence from the COE Chief Engineer on the incorporation of new technology features in Windows 2000 and the COE.

Related Tasks: 5.3, Windows 2000 R&D Wish List

Team Lead: Tom Gannon

Team Members: Pat Arnold

Schedule: Ongoing

Status: ?

2.4 Internet Protocol v6

Task: Team will investigate the Internet Protocol v6 implementation in the Windows operating systems for incorporation into the COE. The team will make presentations and recommendations to the NTAG on the best use of new technology in the heterogeneous environment of the COE.

Related Tasks: 2.3, Emerging Technologies

Team Lead: Eric Krum

Team Members: Thomas Talley

Schedule:

Status: New

3 COE Documentation Updates

3.1 Develop/Update I&RTS V4.x Windows 2000 Chapter

Task: Team will have the overall responsibility of working with DISA, CINC, Services and Agencies to identify changes necessary to the I&RTS to improve Windows platform operations, development requirements, and accommodate the incorporation of Windows 2000. The team will be responsible for responsible for document preparation. Document status updates will be given to the NTAG on a regular basis.

Related Tasks: 3.2: Update I&RTS v4.x Compliance Checklist for Windows 2000,
3.3: Update I&RTS V4.x Security Chapter for Windows 2000

Team Lead: Eric Krum

Team Members: Bob Blaisdell, Doug Morris, Andrew Cox

Schedule: Submitted to DISA in December 2000

Status: Completed

3.2 Update I&RTS v4.x Compliance Checklist for Windows 2000

Task: Team will investigate and make recommendations concerning the need to update the COE Compliance Checklist for Windows 2000 as it is contained in the I&RTS. The team will make recommendations as to how the Logo program specifications should be assigned to specific compliance levels and also how segment compliance should be evaluated with this information. All results of the investigation will be briefed to the NTAG and the team will be responsible for coordinating any required changes with the COE Engineering office. All documentation generated in this effort will be placed on the NTAG web pages for public evaluation.

Related Tasks: 1.1: Define/Update COE Segmentation and Certification Processes;
3.1: Develop/Update I&RTS V4.x Windows 2000 Chapter

Team Lead: Eric Krum

Team Members: Bob Blaisdell, Doug Morris, Andrew Cox

Schedule: Submitted to DISA in December 2000

Status: **Completed**

3.3 Update I&RTS V4.x Security Chapter for Windows 2000

Task: Team will have the overall responsibility of working with DISA, CINC, Services and Agencies to identify changes necessary to the I&RTS to reflect the appropriate security model, infrastructure, protocols, schemas, and requirements for Windows 2000 as a COE Platform. The team will be responsible for responsible for document preparation. Document status updates will be given to the NTAG on a regular basis.

Related Tasks: 3.1: Develop/Update I&RTS V4.x Windows 2000 Chapter,
5.1: Security Model

Team Lead: Paul Bartock

Team Members: Bob Blaisdell, Doug Morris, Eric Krum

Schedule: Submitted to DISA in December 2000

Status: **Completed**

3.4 Develop Reduced Light/Night Operations Specifications for COE NT-based Platforms

Task: Team will have the overall responsibility of developing the methodology, policies and procedures COE NT/Windows 2000 platforms will use to control system colors, standard system size, and input settings for platforms that must operate in reduced light or night operations. Develop system color schema, registry updates, and utilities necessary to implement required system level changes. Work with DISA to identify changes necessary to the DII User Interface Specification and kernel to accommodate the reduced light and night operations. Document status updates will be given to the NTAG on a regular basis.

Related Tasks: 1.1: Define/Update COE Segmentation and Certification Processes;
3.1: Develop/Update I&RTS V4.x Windows 2000 Chapter

Team Lead: Jean Wyllie

Team Members:

Schedule: ?
Status: ?

3.5 Develop/Update I&RTS V4.x Windows XP and .NET

Task: Team will have the overall responsibility of working with DISA, CINC, Services and Agencies to identify changes necessary to the I&RTS to improve Windows platform operations, development requirements, and accommodate the incorporation of Windows XP and .NET. The team will be responsible for responsible for document preparation. Document status updates will be given to the NTAG on a regular basis.

Related Tasks: 3.6: Update I&RTS v4.x Compliance Checklist for Windows XP and .NET,
3.7: Update I&RTS V4.x Security Chapter for Windows XP and .NET
4.2 Use of .NET Assemblies
6.1 .NET Security Model
6.2 .NET Common Language Runtime
6.3 .NET Installation Technologies

Team Lead: Eric Krum
Team Members:
Schedule: Brief NTAG on March 2002
Status: [New](#)

3.6 Update I&RTS v4.x Compliance Checklist for Windows XP and .NET

Task: Team will investigate and make recommendations concerning the need to update the COE Compliance Checklist for Windows XP and .NET as it is contained in the I&RTS. The team will make recommendations as to how the Logo program specifications should be assigned to specific compliance levels and also how segment compliance should be evaluated with this information. All results of the investigation will be briefed to the NTAG and the team will be responsible for coordinating any required changes with the COE Engineering office. All documentation generated in this effort will be placed on the NTAG web pages for public evaluation.

Related Tasks: 1.3: Define/Update COE Segmentation Processes for .NET;
3.7: Update I&RTS V4.x Security Chapter for Windows XP and .NET

Team Lead: Bob Stuhr
Team Members:
Schedule: Brief NTAG in June 2002
Status: [New](#)

3.7 Update I&RTS V4.x Security Chapter for Windows XP and .NET

Task: Team will have the overall responsibility of working with DISA, CINC, Services and Agencies to identify changes necessary to the I&RTS to reflect the appropriate security model, infrastructure, protocols, schemas, and requirements for Windows XP and Windows NT/2000/XP with the .NET runtime as a COE Platform. The team will be responsible for document preparation. Document status updates will be given to the NTAG on a regular basis.

Related Tasks: 3.6: Update I&RTS v4.x Compliance Checklist for Windows XP and .NET,
4.2 Use of .NET Assemblies
6.1 .NET Security Model
6.2 .NET Common Language Runtime
6.3 .NET Installation Technologies

Team Lead:

Team Members: Eric Krum

Schedule: Brief NTAG in March 2002

Status: [New](#)

3.8 Develop Automatic Test Tools for I&RTS V4.2

Task: Using 'TestFoundation' as a baseline, the team will automate the Windows 2000, Logo Requirements Test Procedure, using the Rational Robot test tool. Later, the group will incorporate the rest of the requirements called out in I&RTS V4.2 (the COE specific items) into the test suite. The products will be made available to COE developers and DISA test facilities. Progress and issues will be briefed periodically to the NTAG. As an intermediate task, the team will transform the current VPA based Compliance Worksheet (I&RTS V4.0) to V4.2.

Related Tasks: 3.2: Update I&RTS v4.2 Compliance Checklist for Windows 2000

Team Lead: Bob Stuhr

Team Members: Eric Krum

Schedule: V4.2 Compliance Worksheet (VBA based), 30 days after DISA release of

I&RTS

Brief NTAG in March 2002 (Logo automatic test suite)

Brief NTAG in September 2002 (V4.2 test suite, including Logo portion)

Status: New

4 COE NT Kernel Extension Evaluations

4.1 Use of ActiveX Components

Task: Team will develop recommendations for the incorporation of ActiveX technology into the COE. The team will prepare recommendations on the use of ActiveX components and the situations in which the use of this technology can be best exploited. ActiveX component integration, use of ActiveX components in mobile code, ActiveX component registration requirements and ActiveX management are to be addressed in this investigation. The

recommendations will be briefed to the NTAG and the team will lead the effort to obtain DISA concurrence on the possibility of incorporating ActiveX technology into the COE environment.

Related Tasks:

Team Lead: Eric Krum

Team Members:

Schedule: Submitted to DISA December 2000

Status: **Completed**

4.2 Use of .NET Assemblies

Task: Team will develop recommendations for the incorporation of .NET Assemblies into the COE. The team will prepare recommendations on the use of assemblies to build components and the situations in which the use of this technology can be best exploited. Assembly component integration, use of Assembly based components in mobile code, Assembly registration requirements and Assembly management are to be addressed in this investigation. The recommendations will be briefed to the NTAG.

Related Tasks: Update I&RTS v4.x Compliance Checklist for Windows XP and .NET

Team Lead: Eric Krum

Team Members:

Schedule: Brief the NTAG in March 2002

Status: **New**

4.3 Design and Implementation Plan for a Commercialized Windows Kernel

Task: Team will develop a draft plan for the design and implementation for the Windows based 5x kernel. Emphasis will be on development of a kernel that is:

- Maximize use of native commercial Windows operating systems technologies, features and functions.
- Meet I&RTS requirements
- Maximize ability to work in a heterogeneous environment

The team will:

- Prepare recommended changes to the I&RTS, COE Architecture, SIG and SDG
- Develop a prototype Windows platform 5x kernel
- Develop a list of differences and commonalities with Windows platform 4x kernel implementation
- Develop a list of differences and commonalities with UNIX platform 4x kernel implementation
- Brief the NTAG and the team will
- Lead the effort to obtain DISA concurrence on the possibility of adopting the 5x kernel prototype into the COE environment.

Related Tasks: None

Team Lead: Eric Krum

Team Members:

Schedule: Submitted to DISA December 2000

Status: [New](#)

4.4 Common Security Framework

Task: Team will develop recommendations for the incorporation of a Common Security Framework to support a Heterogeneous environment by leveraging the capabilities of Kerberos Authentication and Active Directory. The team will make presentations to the NTAG on proof of concept testing demonstrating the capabilities of a Common Security Framework and will be responsible for coordinating final recommendations with the Security Services TWG and subsequently to the COE Chief Engineer. Documentation generated by this effort will be placed on the NTAG web pages for widest possible dissemination and comment.

Related Tasks:

Team Lead: Thomas Talley

Team Members: Bob Stuhr

Schedule: Brief NTAG in March 2002

Status: [New](#)

5 Windows 2000 Impacts

5.1 Security Model

Task: Team will study the new security model that will be delivered with Windows 2000 which include such topics as Public Key Infrastructure (PKI), WIN32 Crypto API, DHCP, IPSec, SMARTCARD API, Point to Point Tunneling Protocol (PPTP), Security Configuration Editor, Secure Channel, Authenticode and Kerberos. Team will develop recommendations for incorporation strategies for these technologies into the COE. Emphasis of the team's work will be to understand these security features and then make presentations and demonstrations to the NTAG on the best use of the new security technologies in the heterogeneous environment of the COE. The team will prepare recommendations on the use of these technologies for COE platforms, including a proposed security guide and revised security chapter for the I&RTS. The recommendations will be briefed to the NTAG and the team will lead the effort to obtain DISA concurrence on the use of Windows 2000 security features in the COE.

Related Tasks: 3.3: Update I&RTS v4.x Security Chapter for Windows 2000

Team Lead: Paul Bartock

Team Members: Doug Morris, Bob Blaisdell, Eric Krum

Schedule: Submitted to DISA January 2001

Status: [Completed](#)

5.2 Active Directory

Task: Team will study the new Active Directory capability that will be delivered with Windows 2000 and will develop recommendations for its incorporation into the COE. Emphasis of the team's work will be to understand the new directory features and then make presentations and demonstrations to the NTAG on the best use of this new technology in the heterogeneous environment of the COE. The team will prepare recommendations on the use of Windows 2000 Active Directory Services and its ability to inter-operate with the LDAP features that are planned for Solaris and HP UX. These recommendations will include proposals for a common schema and naming conventions. These recommendations will be briefed to the NTAG and the team will lead the effort to get DISA concurrence on the use of Windows 2000 active directory features in the COE.

Related Tasks: 3.1: Develop/Update I&RTS V4.x Windows 2000 Chapter

Team Lead: Eric Krum

Team Members: Paul Bartok, Peter Cruikshank, Tom Gannon, Kenny Lintner

Schedule: Submitted to DISA in December 2000

Status: **Completed**

5.3 Heterogeneous Environments

Task: Team will identify significant interoperability issues with Windows 2000 in heterogeneous environments, including security, network access, administration, directory services, etc. The team will make presentations to the NTAG, which summarize significant issues identified and provide recommendations for their resolution.

Related Tasks: 5.3, Microsoft R&D Wish List

Team Lead: Peter Cruikshank

Team Members: Paul Bartock

Schedule: ?

Status: ?

5.4 Fast User Switching

Task: Team will investigate the Fast User Switching technology built in to Windows XP Professional. The Team will concentrate on investigating operational and security configurations for COE systems with Windows XP Professional with the Fast User Switching enabled. The team will make presentations, demonstrations and recommendations to the NTAG on the best use of new technology in the COE. The team will also lead efforts to obtain concurrence from the COE Chief Engineer on the incorporation of the new technology and corresponding configuration into the COE.

Related Tasks: 6.1 .NET Security Model

Team Lead:

Team Members:

Schedule: Brief NTAG in March 2002

Status: **New**

6. Windows .NET Impact Evaluations

6.1 NET Security Model

Task: Team will study the new security model that will be delivered with Windows .NET client and server runtime, which include such topics as Policies for Assembly, Application, Machine, Domain, Public Key Infrastructure (PKI), WIN32 Crypto API, Security Configuration Editor, Secure Channel, Authenticode and Keberos. Team will develop recommendations for incorporation strategies for these technologies into the COE. Emphasis of the team's work will be to understand these security features and then make presentations and demonstrations to the NTAG on the best use of the new security technologies in the heterogeneous environment of the COE. The team will prepare recommendations on the use of these technologies for COE platforms, including a proposed security guide and revised security chapter for the I&RTS. The recommendations will be briefed to the NTAG and the team will lead the effort to obtain DISA concurrence on the use of Windows .NET security features in the COE.

Related Tasks:

Team Lead:

Team Members:

Schedule: Brief to NTAG June 2002

Status: [New](#)

6.2 .NET Common Language Runtime

Task: Team will study the new Common Language Runtime (CLR) capability that will be delivered in 2002 for Windows NT, 2000 and XP, and will develop recommendations for its incorporation into the COE. Emphasis of the team's work will be to understand the new CLR and then make presentations and demonstrations to the NTAG on the best use of this new technology in the environment of the COE. The team will prepare recommendations on the use of the CLR. These recommendations will be briefed to the NTAG and the team will lead the effort to get DISA concurrence on the use of the CLR on Windows NT, 2000 and XP in the COE.

Related Tasks: 4.2 Use of .NET Assemblies

6.1 .NET Security Model

Team Lead: Eric Krum

Team Members:

Schedule:

Status: [New](#)

6.3 .NET Installation Technologies

Task: Team will gather requirements from the Services and Agencies for installation of .NET assemblies and mission-applications based on assemblies on to

Windows based COE operating systems in use or planned for use by the COE. Emphasis of the team's work will be to understand the future requirements for segments built as .NET Assemblies and integration with the COE Java installer. The team will make presentations to the NTAG on consolidated requirements of future COE kernels and will be responsible for coordinating final recommendations to the COE Chief Engineer. Documentation generated by this effort will be placed on the NTAG web pages for widest possible dissemination and comment.

Related Tasks:

Team Lead: Eric Krum

Team Members:

Schedule: Brief NTAG in March 2002

Status: [New](#)

6.4 .NET in a Heterogeneous COE Environment

Task: The team will study the utility of COE developers/users bundling functionality into Web Services. This would enable client applications to reuse the software, using XML and COTS network protocols for access. The group will identify the issues concerning interoperability, security, directory services, and administration. Differences between .NET Web Services and the Sun ONE approach will be highlighted. The team will make presentation(s) to the NTAG, which summarize significant issues identified and provide recommendations for their resolution.

Related Tasks: 5.3, Heterogeneous Environments

Team Lead:

Team Members:

Schedule: Brief NTAG in June 2002

Status: [New](#)